

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: MAIL STOP NON-FEE AMENDMENT; COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450, ON THE DATE INDICATED BELOW.

BY: Anne Scallatino DATE: April 30, 2004

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Patent Application of Ming Hao Zheng, *et al.* : Group Art Unit: 2370
Appln. No.: 10/672,947 :
Filed: September 26, 2003 : Examiner: Unassigned
For: AUTOLOGOUS CELLS ON A SUPPORT MATRIX : Attorney Docket
: No. 054756-5050



INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO 1449 submitted herewith. A copy of each of the listed references is also enclosed.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

No first Official Action has yet been received and it is presumed that none has yet been mailed. No fee or certification is required. 37 C.F.R. § 1.97(b).

Respectfully submitted,

MING HAO ZHENG, *ET AL.*

By:

Louis W. Beardell
LOUIS W. BEARDELL, JR.

Registration No. 40,506
MORGAN, LEWIS & BOCKIUS, LLP
1701 Market Street
Philadelphia, PA 19103-2921

Telephone: (215) 963-5000
Direct Dial: (215) 963-5067
Facsimile: (215) 963-5001
E-Mail: lbeardell@morganlewis.com
Attorney for Applicants

The PTO did not receive the following listed items(s) two of the

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/672,947
		Filing Date	September 26, 2003
		First Named Inventor	Ming Hao Zheng
		Group Art Unit	1646
		Examiner Name	UNASSIGNED
Sheet 1 of 8	Attorney Docket Number	054756-5050	



U.S. PATENT DOCUMENTS				
Exr Initials	U.S. Patent Document		Name of Inventor or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number	Kind Code (if known)		
	6,599,301	B2	Vibe-Hansen et al	07-29-2003
	6,599,300	B2	Vibe-Hansen et al	07-29-2003
	6,592,599	B2	Vibe-Hansen et al	07-15-2003
	6,592,598	B2	Vibe-Hansen et al	07-15-2003
	6,569,172	B2	Asculai et al	05-27-2003
	6,379,367	B1	Vibe-Hansen et al	04-30-2002
	6,283,980	B1	Vibe-Hansen, et al.	09-04-2001
	6,242,247	B1	Riesser et al.	06-05-2001
	6,206,931	B1	Cook et al.	03-27-2001
	6,187,053	B1	Minuth	02-13-2001
	6,176,880	B1	Plouhar, et al.	01-23-2001
	6,143,501		Sittinger, et al.	11-07-2000
	6,132,463		Lee, et al.	10-17-2000
	6,120,514		Vibe-Hansen, et al.	09-19-2000
	6,080,194		Pachence, et al.	06-27-2000
	6,007,539		Kirsch, et al.	12-28-1999
	6,001,895		Harvey, et al.	12-14-1999
	5,993,844		Abraham, et al.	11-30-1999
	5,932,459		Sittinger, et al.	08-03-1999
	5,902,741		Purchio, et al.	05-11-1999
	5,989,269		Vibe-Hansen, et al.	11-23-1999
	5,955,438		Pitaru, et al.	09-21-1999
	5,922,028		Plouhar, et al.	07-13-1999
	5,891,455		Sittinger, et al.	04-06-1999
	5,869,080		McGregor, et al.	02-09-1999
	5,853,746		Hunziker	12-29-1998
	5,837,278		Geistlich, et al.	11-17-1998
	5,788,625		Plouhar, et al.	08-04-1998
	5,769,899		Schwartz, et al.	06-23-1998
	5,759,190		Vibe-Hansen, et al.	06-02-1998
	5,736,372		Vacanti, et al.	04-07-1998
	5,713,374		Pachence, et al.	02-03-1998
	5,700,476		Rosenthal, et al.	12-23-1997
	5,658,343		Hauselmann, et al.	08-19-1997
	5,629,191		Cahn	05-13-1997
	5,595,621		Light, et al.	01-21-1997
	5,569,252		Justin, et al.	10-29-1996
	5,567,806		Abdul-Malak, et al.	10-22-1996
	5,565,210		Rosenthal, et al.	10-15-1996
	5,544,552		Kirsch, et al.	08-13-1996
	5,514,181		Light, et al.	05-07-1996
	5,489,304		Orgill, et al	02-06-1996
	5,470,911		Rhee, et al.	11-28-1995
	5,447,940		Harvey, et al.	09-05-1995
	5,445,597		Clark, et al.	08-29-1995

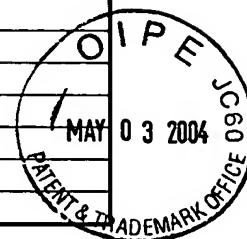
T₁ - Place a check mark if English language translation is attached.

County Code - see Phila Doc #52886

Kind Code - see Phila Doc # 99754

1-PH/1993894.1

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/672,947
		Filing Date	September 26, 2003
		First Named Inventor	Ming Hao Zheng
		Group Art Unit	1646
		Examiner Name	UNASSIGNED
Sheet 2 of 8	Attorney Docket Number	054756-5050	



	5,423,858		Bolanos, et al.	06-13-1995
	5,403,338		Milo	04-04-1995
	5,397,353		Oliver, et al.	03-14-1995
	5,354,283		Bark, et al.	10-11-1994
	5,306,311		Stone, et al.	04-26-1994
	5,259,835		Clark, et al.	11-09-1993
	5,258,043		Stone	11-02-1993
	5,256,418		Kemp, et al.	10-26-1993
	5,246,441		Ross, et al.	09-21-1993
	5,206,028		Li	04-27-1993
	5,206,023		Hunziker	04-27-1993
	5,201,745		Tayot, et al.	04-13-1993
	5,158,574		Stone	10-27-1992
	5,116,374		Stone	05-26-1992
	5,092,883		Eppley, et al.	03-03-1992
	5,067,964		Richmond, et al.	11-26-1991
	5,062,845		Kuslich, et al.	11-05-1991
	5,041,138		Vacanti, et al.	08-20-1991
	5,028,695		Eckmayer, et al.	07-02-1991
	5,026,381		Li	06-25-1991
	5,019,108		Bertin, et al.	05-28-1991
	5,007,916		Linsky, et al.	04-16-1991
	4,904,259		Itay	02-27-1990
	4,902,508		Badylak, et al.	02-20-1990
	4,877,020		Vich	10-31-1989
	4,846,835		Grande	07-11-1989
	4,789,663		Wallace et al.	12-06-1988
	4,681,588		Ketharanathan	07-21-1987
	4,649,918		Pegg, et al.	03-17-1987
	4,642,120		Nevo, et al.	02-10-1987
	4,642,117		Nguyen, et al.	02-10-1987
	4,559,936		Hill	12-24-1985
	4,553,272		Mears	11-19-1985
	4,393,874		Nappholz, et al.	07-19-1983
	4,385,404		Sully, et al.	05-31-1983
	4,320,201		Berg, et al.	03-16-1982
	3,800,792		McKnight, et al.	04-02-1974
	2002/0013627	Publication	Geistlich, et al.	01-31-2002

FOREIGN PATENT DOCUMENTS						
Exr Initials	Foreign Patent Document			Name of Inventor or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ₁
	Country Code	Number	Kind Code (if known)			
	PCT	WO 02/09790			02-07-2002	
	PCT	WO 01/59068 A2 Abstract in English			08-16-2001	No translation

T₁ - Place a check mark if English language translation is attached.

County Code - see Phila Doc #52886

Kind Code - see Phila Doc # 99754

1-PH/1993894.1

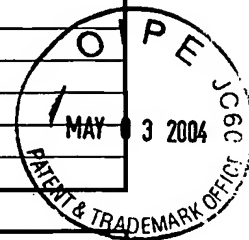
Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/672,947
		Filing Date	September 26, 2003
		First Named Inventor	Ming Hao Zheng
		Group Art Unit	1646
		Examiner Name	UNASSIGNED
Sheet 3 of 8	Attorney Docket Number	054756-5050	



	PCT	WO 01/37858 Abstract in English			05-31-2001	No translation
	PCT	WO 99/19005			04-22-1999	
	PCT	WO 98/35653			08-20-1998	
	DE	196 48 876 Abstract in English			05-28-1998	No translation
	EP	EP 0 842 670 A1			05-20-1998	
	PCT	WO-98/00180			01/08/1998	
	PCT	WO 97/46665 Abstract in English			12-11-1997	No translation
	DE	DE 196 54 884 A1 Abstract in English			09-11-1997	No translation
	PCT	WO 97/32616 Abstract in English			09-12-1997	No translation
	PCT	WO 97/30662			08-28-1997	
	PCT	WO 97/26028 Abstract in English			07-24-1997	No translation
	PCT	WO 97/15655 Abstract in English			05-01-1997	No translation
	DE	195 40 487 A1 Abstract in English			04-24-1997	No translation
	PCT	WO 96/39196			12-12-1996	
	PCT	WO 96/25961			08-29-1996	
	PCT	WO 96/24310			08-15-1996	
	DE	44 25 456 A1 Abstract in English			03-21-1996	No translation
	DE	44 31 598 A1 Abstract in English			03-07-1996	No translation
	PCT	WO 95/30383			11-16-1995	
	EP	EP 0 674 908 A1			10-04-1995	
	PCT	WO 95/18638			07-13-1995	
	EP	EP 0 640 647 A2			03-01-1995	
	PCT	WO 94/20151 Abstract in English			09-15-1994	No translation
	PCT	WO 94/09722			05-11-1994	
	PCT	WO 94/09118			04-28-1994	
	EP	EP-0446262 B1			03/16/1994	
	PCT	WO 94/00484			01-06-1994	
	PCT	WO 93/19168			09-30-1993	
	PCT	WO 93/11723			06-24-1993	
	EP	EP-0530 804 A1			03-10-1993	
	FR	FR 2 679 778 A1 Abstract in English			02-05-1993	No translation
	PCT	WO 92/22312			12-23-1992	
	PCT	WO 92/13565			08-20-1992	
	PCT	WO 90/13302			11-15-1990	

T₁ - Place a check mark if English language translation is attached.
County Code - see Phila Doc #52886
Kind Code - see Phila Doc # 99754
1-PH/1993894.1

Substitute for form 1449A/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/672,947		
		Filing Date	September 26, 2003		
		First Named Inventor	Ming Hao Zheng		
		Group Art Unit	1646		
		Examiner Name	UNASSIGNED		
Sheet	4	of	8	Attorney Docket Number	054756-5050



	PCT	WO 90/10018			09-07-1990	
	PCT	WO 90/09783			09-07-1990	
	EP	EP 0 375 127 A1			06-27-1990	
	PCT	WO 90/05755			05-31-1990	
	EP	EP 0 361 896 A2			04-04-1990	
	EP	EP 0 339 607 B1			11-02-1989	
	PCT	WO 89/04646			06-01-1989	
	EP	EP 0 308 238 A1			03-22-1989	
	PCT	WO 89/01767			03-09-1989	
	PCT	WO 88/06894			09-22-1988	
	GB	GB 2 226 247 B			09-22-1988	
	PCT	WO 86/00526			01-30-1986	
	DE	3203957 A1			08/18/1983	
	DE	29 33 174			04-10-1980	No translation
		Abstract in English				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exr Initials	Include Name of Author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ₁
	ARCHER, CHARLES, W.; McDOWELL, JENNY; BAYLISS, MICHAEL, T.; STEPHENS, MYRA, D.; and BENTLEY, GEORGE, "Phenotypic modulation in sub-populations of human articular chondrocytes in vitro," Journal of Cell Science, Vol. 97, 1990, pp. 361-371.	
	AULHOUSE, AMY LYNN; BECK, MICHAEL; GRIFFEY, EDWARD; SANFORD, JULIE; ARDEN, KAREN; MACHADO, MIRTA, A.; and HORTON, WILLIAM, A., "Expression of the Human Chondrocyte Phenotype in Vitro", In Vitro Cellular and Developmental Biology, Vol. 25, No. 7, July 1989, p. 659-668.	
	BENYA, PAUL D.; PADILLA, SILVIA, R.; and NIMNI, MARCEL, E., "Independent Regulation of Collagen Types by Chondrocytes during the Loss of Differentiated Function in Culture", Cell, Vol. 15, December 1978, pp. 1313-1321.	
	BONAVENTURE, J.; KADHOM, N.; COHEN-SOLAL, L.; NG, K.H.; BOURGUIGNON, J.; LASSELIN, C.; and FREISINGER, P., "Reexpression of Cartilage-Specific Genes by Dedifferentiated Human Articular Chondrocytes Cultured in Alginate Beads," Experimental Cell Research, Vol. 212, 1994, pp. 97-104.	
	BRITTBERG, M., M.D.; NILSSON, A., M.D., Ph.D.; LINDAHL, A., M.D., Ph.D., OHLSSON, C., M.D., Ph.D.; and PETERSON, L., M.D., Ph.D., "Rabbit Articular Cartilage Defects Treated With Autologous Cultured Chondrocytes," Clinical Orthopaedics and Related Research, Number 326, 1996, pp. 270-283.	
	BRITTBERG, M., M.D.; LINDAHL, A., M.D., Ph.D.; NILSSON, A., M.D., Ph.D.; OHLSSON, C., M.D., Ph.D.; ISAKSSON, O., M.D., Ph.D.; and PETERSON, L., M.D., Ph.D., "Treatment of Deep Cartilage Defects in the Knee with Autologous Chondrocyte Transplantation," New England Journal of Medicine, Vol. 331, No. 14, 1994, pp. 889-895.	
	BUJIA, J.; SITTINGER, M.; HAMMER, C.; and BURMESTER, G., "Engineering Human Cartilage Tissue Using a Perfusion Chamber," Laryngo-Rhino-Otol., Vol. 73, 1994, pp. 577-580. (Abstract in English)	
	BUJIA, J., "In Vitro Engineering of Autologous Cartilage Tissue for Reconstructive Surgery: Possibilities and Limitations," Laryngo-Rhino-Otol., Vol. 75, 1995, pp. 205-210. (Abstract in English)	
	CAHN, ROBERT D. and LASHER, ROBERT, "Simultaneous Synthesis of DNA and Specialized Cellular Products by Differentiating Cartilage Cells in Vitro," PNAS, Vol. 58, 1967, pp. 1131-1138.	

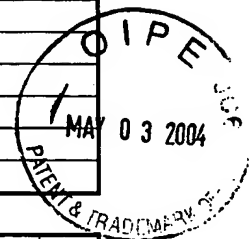
T₁ - Place a check mark if English language translation is attached.

County Code - see Phila Doc #52886

Kind Code - see Phila Doc # 99754

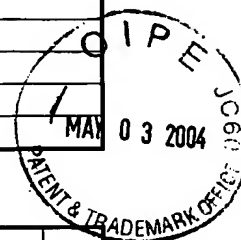
1-PH/1993894.1

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/672,947
		Filing Date	September 26, 2003
		First Named Inventor	Ming Hao Zheng
		Group Art Unit	1646
		Examiner Name	UNASSIGNED
		Attorney Docket Number	054756-5050
Sheet	5	of	8



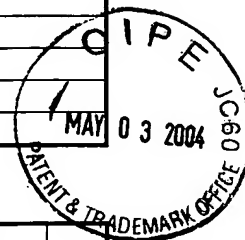
	COON, H.G. and CAHN, R.D., "Differentiation in vitro: Effects of Sephadex Fractions of Chick Embryo Extract," Science, Vol. 153, 2 September 1966, pp. 1116-1119.	
	FICAT, R.P., M.D.; FICAT, C., M.D.; GEDEON, P., M.D.; and TOUSSAINT, J.B., M.D., "Spongialization: A New Treatment for Diseased Patellae," Clinical Orthopaedics and Related Research, Number 144, October 1979, pp. 74-83.	
	FREED, L. et al., "Joint Resurfacing Using Allograft Chondrocytes and Synthetic Biodegradable Polymer Scaffolds", J. Biomed. Mater. Res. 1994, 28:891-899.	
	FRENKEL, SALLY, R.; TOOLAN, BRIAN; MENCHE, DAVID; PITMAN, MARK, I; and PACHENCE, JAMES, R., "Chondrocyte Transplantation Using a Collagen Bilayer Matrix for Cartilage Repair," The Journal of Bone and Joint Surgery, Vol. 79-B, No. 5, September 1997, pp. 831-836.	
	FUJISATO et al., "Effect of Basic Fibroblast Growth Factor on Cartilage Regeneration in Chondrocyte-seeded collagen Sponge Scaffold," Biomaterials, 1996, 17:155-162.	
	GOSPODAROWICZ ET AL., "A comparison of the Responses of Cultured Myoblasts and Chondrocytes to Fibroblast and Epidermal Growth Factors", J. Cell. Physiol., 1977, 93: 117-127.	
	HALL ET AL., "Cartilage: Molecular Aspects", Biomed, 1991, pp. 42-57.	
	HAUSELMANN, HANS, J.; FERNANDES, RUSSEL, J.; MOK, SU, S.; SCHMID, THOMAS, M.; BLOCK, JOEL, A.; AYDELOTTE, MARGARET, B.; KUETTNER, KLAUSE, E.; and THONAR, EUGENE J.-M., A., "Phenotypic stability of bovine articular chondrocytes after long-term culture in alginate beads," Journal of Cell Science, Vol. 107, 1994, pp. 17-27.	
	HELBING, G.; BURRI, C.; HEIT, W.; NEUGEBAUER, R.; and RUTER, A., "In vivo synthesis of cartilage after transplantation of chondrocytes in animal experiments," Chir Forum Exp Klin Forsch, 1980, pp. 47-51. (Abstract in English)	
	HENDRICKSON, D.A.; NIXON, A.J.; GRANDE, D.A.; TODHUNTER, R.J.; MINOR, R.M.; ERB, H.; and LUST, G., "Chondrocyte-Fibrin Matrix Transplants for Resurfacing Extensive Articular Cartilage Defects," Journal of Orthopaedic Research, Vol. 12, No. 4, 1994, p. 485-497.	
	HINEK, A.; KAWIAK, J.; CZARNOWSKA, E.; and BARCEW, B., "The Effect of Agarose and Dexamethasone on the Nature and Production of Extracellular Matrix Components by Elastic Cartilage Chondrocytes," Acta Biologica Hungarica, Vol. 35, 1984, pp. 245-258.	
	INSALL, J., M.D., "The Pridie Debridement Operation for Osteoarthritis of the Knee," Clinical Orthopaedics and Related Research, Number 101, June 1974, pp. 61-67.	
	International Search Report dated December 23, 1999.	
	International Search Report dated March 3, 2000.	
	ISHIZEKI, K.; NAGANO, H.; FUJIWARA, H.; and NAWA, T., "Morphological changes during survival, cellular transformation, and calcification of the embryonic mouse: Meckel's cartilage transplanted into heterotopic sites," J. Cardiofac Genet Dev. Biol, Vol. 14, 1994, pp. 33-42.	
	JOHNSON, L.L., "Arthroscopic Abrasion Arthroplasty," Operative Arthroscopy, edited by J.B. McGinty et al., Raven Press, New York, 1991, Chapter 24, pp. 341-360.	
	KANDEL, R.A., M.D.; CHEN, H., M.Sc.; CLARK, J.; and RENLUND, R., D.V.M., M.Sc., "Transplantation of Cartilagenous Tissue Generated In Vitro Into Articular Joint Defects," Art. Cells, Blood Subs., and Immob. Biotech., Vol. 23(5), 1995, pp. 565-577.	
	KAWABE, N., M.D.; EHRLICH, M.G., M.D.; and MANKIN, H.J., M.D., "Growth Plate Reconstruction Using Chondrocyte Allograft Transplants," Journal of Pediatric Orthopaedics, Vol. 7, 1987, pp. 381-388.	

Substitute for form 1449A/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/672,947		
		Filing Date	September 26, 2003		
		First Named Inventor	Ming Hao Zheng		
		Group Art Unit	1646		
		Examiner Name	UNASSIGNED		
Sheet	6	of	8	Attorney Docket Number	054756-5050



	KAWIAK, J.; MOSKALEWSKI, S.; and HINEK, A., "Reconstruction of the elastic cartilage by isolated chondrocytes in autogeneic transplants," Acta anat., Vol. 76, 1970, pp. 530-544.	
	KEMPSON, G. E.; TUKE, M. A.; DINGLE, J. T.; BARRETT, A. J.; and HORSFIELD, P.H., "The Effects of Proteolytic Enzymes on the Mechanical Properties of Adult Human Articular Cartilage", Biochimica et Biophysica Acta, Vol. 428, 1976, pp. 741-760.	
	KIRSCH, T.; SWOBODA, B.; and VON DER MARK, K., "Ascorbate independent differentiation of human chondrocytes in vitro: simultaneous expression of types I and X collagen and mitrix mineralization," Differentiation, Vol. 52, 1992, pp. 89-100.	
	KOLETTAS, E.; BULUWELA, L.; BAYLISS, M.T.; and MUIR, H.I.; "Expression of cartilage-specific molecules is retained on long-term culture of human articular chondrocytes," Journal of Cell Science, Vol. 108, 1995, pp. 1991-1999.	
	KSANDER ET AL., "Exogenous Transforming Growth Factor-Beta 2 Enhances Connective Tissue Formation and Wound Strength in Guinea Pig Dermal Wounds Healing By Secondary Intent," Annals of Surgery, Vol. 211, No. 3, March 1990, Pages 288-294, *Abstract; discussion*	
	KSIAZEK, T., Ph.D. and MOSKALEWSKI, S., Ph.D., "Studies on Bone Formation by Cartilage Reconstructed by Isolated Epiphyseal Chondrocytes, Transplanted Syngeneically or Across Known Histocompatibility Barriers in Mice," Clinical Orthopaedics and Related Research, Number 172, Jan.-Feb. 1983, pp. 233-242.	
	MILLER, M.D., "Treatment of Chondral Injuries," Operative Techniques in Orthopaedics, 1997, Vol. 7, No. 4, October.	
	MILLER, M.D., "Atlas of Chondral Injury Treatment," Sports Medicine Service, Department of Orthopaedic Surgery, U.S. Air Force Academy, 1997	
	MINAS, et al., "Chondrocyte Transplantation", Operative Techniques in Orthopaedics, 1997, Vol. 7, p. 323-33.	
	MOSKALEWSKI, S.; HYC, A.; GRZELA, T.; and MALEJCZYK, J., "Differences in Cartilage Formed Intramuscularly or in Joint Surface Defects by Syngeneic Rat Chondrocytes Isolated from the Articular-Epiphyseal Cartilage Complex," Cell Transplantation, Vol. 2, 1993, pp. 467-473.	
	MOSKALEWSKI, S. and MALEJCZYK, J., "Bone formation following intrarenal transplantation of isolated murine chondrocytes: chondrocyte—bone cell transdifferentiation?", Development, Vol. 107, 1989, pp. 473-480.	
	MOSKALEWSKI, S.; MALEJCZYK, J.; and OSIECKA, A., "Structural Differences Between Bone Formed Intramuscularly Following the Transplantation of Isolated Calvarial Bone Cells or Chondrocytes," Anat. Embryol, Vol. 175, 1986, pp. 271-277.	
	MOSKALEWSKI, S., "The Elastogenetic Process in Transplants and Cultures of Isolated Auricular Chondrocytes," Connective Tissue Research, Vol. 8, 1981, pp. 171-174.	
	MOSKALEWSKI, S. and RYBICKA, E., "The influence of the degree of maturation of donor tissue on the reconstruction of elastic cartilage by isolated chondrocytes," Acta anat., Vol. 97, 1977, pp. 231-240.	
	MUTTER, D., et al., "Biomaterial Supports for Colonic Wall Defect Healing", Biomaterials, 1996, 17:1411-1415.	
	NEHRER, S. BREINAN, H.A.; RAMAPPA, A.; HSU, H-P; MINAS, T.; SHORTKROFF, S., SLEDGE, C.B.; YANNAS, I.V.; and SPECTOR, M., "Chondrocyte-seeded Collagen Matrices Implanted in a Chondral Defect in a Canine Model," Elsevier Science Ltd, Biomaterials 19, 1998, pp. 2313-2328	

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/672,947
		Filing Date	September 26, 2003
		First Named Inventor	Ming Hao Zheng
		Group Art Unit	1646
		Examiner Name	UNASSIGNED
Sheet 7 of 8	Attorney Docket Number		054756-5050



	NEHRER, STEFAN; BREINAN, HOWARD, A.; RAMAPPA, ARUN; SHORTKROFF, SONYA; YOUNG, GRETCHEN; MINAS, TOM; SLEDGE, CLEMENT, B.; YANNAS, IOANNIS, V.; and SPECTOR, MYRON, "Canine Chondrocytes Seeded in Type I and Type II Collagen Implants Investigated In Vitro", Journal of Biomedical Materials Research, 1997, Vol. 38, pp. 95-104.	
	NIXON, A.J., BVSc, MS; SAMES, A.E., DVM; LUST, G., PhD; GRANDE, D., PhD; and MOHAMMED, H.O., BVSc, PhD, "Temporal matrix synthesis and histologic features of a chondrocyte-laden porous collagen cartilage analogue," American Journal of Veterinary Research, Vol. 54, No. 2, February 1993, pp. 349-356.	
	OSIECKA, A.; MALEJCZYK, J.; and MOSKALEWSKI, S., "Cartilage Transplants in Normal and Preimmunized Mice," Arch Immunol Ther Exp (Warsz), 1990, Vol. 38(5-6), pp. 461-473.	
	PACHENCE, J., "Collagen Based Devices for Soft Tissue Repair", 1996, J. Biomed. Mater. Res., 33:35-40.	
	PERKA, C.; LINDENHAYN, K.; HEILMANN, H.-H.; SITTINGER, M.; and MUSCHIK, M., "Implantation of Allogenic Embryonal Chondrocytes in a Collagen-Fibrinogen Matrix into Mechanical Induced Full-Thickness Defects of Chick Articular Cartilage," Z. Orthop., Vol. 134, 1996, pp. 562-572. (Abstract in English)	
	PRAEMER, ALLAN, M.A.; FURNER, SYLVIA, Ph.D.; and RICE, DOROTHY, P., "Musculoskeletal Conditions in the United States", Section 4: "Medical Implants and Major Joint Procedures", February 1992, Academy of Orthopaedic Surgeons, pp. 127-141.	
	QUATELA, VITO, C., M.D.; SHERRIS, DAVID, A., M.D.; and ROSIER, RANDY, N., M.D., Ph.D., "The Human Auricular Chondrocyte: Responses to Growth Factors", Arch Otolaryngol Head Neck Surg., Vol. 119, January 1993, pp. 32-37.	
	REICHENBERGER, E.; AIGNER, T.; VON DER MARK, K.; STOß, H.; and BERTLING, W., "In Situ Hybridization Studies on the Expression of Type X Collagen in Fetal Human Cartilage," Developmental Biology, Vol. 148, 1991, pp. 562-572.	
	RONNING, O. and PELTOMAKI, T., "Growth Potential of the Rat Mandibular Condyle as an Isogeneic Transplant Traversing the Interparietal Suture," Arcs oral Biol., Vol. 36, No. 3, 1991, pp. 203-210.	
	ROTH ET AL., "The Intrinsic Tensile Behavior of the Matrix of Bovine Articular Cartilage and Its Variation with Age", Journal of Bone and Joint Surgery, Vol. 62-A, No. 7, Oct, 1980, pp. 1102-1117.	
	SAMS, A., et al., "Chondrocyte-laden Collagen Scaffolds for Resurfacing Extensive Articular Cartilage Defects", Osteoarthritis and Cartilage, 1995, 3:47-59.	
	SAMS, A., et al., "Local and Remote Matrix Responses to Chondrocyte-laden Collagen Scaffold Implantation in Extensive Articular Cartilage Defects", Osteoarthritis and Cartilage, 1995, 3:61-70.	
	SITTINGER M. ET AL, "Engineering of Cartilage Tissue Using Bioresorbable Polymer Carriers in Perfusion Culture", Biomaterials, 1994, Vol. 15, No. 6, Page 451-456.	
	STEPHENS, MYRA; KWAN, ALVIN, P. L.; BAYLISS, MICHAEL, T.; and ARCHER, CHARLES, W., "Human articular surface chondrocytes initiate alkaline phosphatase and type X collagen synthesis in suspension culture," Journal of Cell Science, Vol. 103, 1992, pp. 1111-1116.	
	STONE, et al., "Surgical Technique for Articular Cartilage Transplantation to Full-Thickness Cartilage Defects in the Knee Joint", 1997, Articular Cartilage Transplantation, p. 305-311.	

Substitute for form 1449A/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/672,947		
		Filing Date	September 26, 2003		
		First Named Inventor	Ming Hao Zheng		
		Group Art Unit	1646		
		Examiner Name	UNASSIGNED		
Sheet	8	of	8	Attorney Docket Number	054756-5050



	STONE, KEVIN, R., M.D.; STEADMAN, J. RICHARD, M.D., RODKEY, WILLIAM, G., D.V.M.; and LI, SHU-TUNG, Ph.D., "Regeneration of Meniscal Cartilage with Use of a Collagen Scaffold," The Journal of Bone and Joint Surgery, Vol. 79-A, No. 12, 1997, pp. 1770-1777.	
	STONE, K., et al., "Future Directions: Collagen-Based Prostheses for Meniscal Regeneration", Clinical Orthopaedics and Related Research, 1990, 252:129-135.	
	STONE, K., et al., "Meniscal Regeneration with Copolymeric Collagen Scaffolds", Am. J. Sports Med., 1992, 20(2):104-111.	
	SUH, et al., "Injury and Repair of Articular Cartilage: Related Scientific Issues", Operative Techniques in Orthopaedics, Vol. 7, No. 4, 1997, pp. 270-278.	
	SWATSCHEK, et al., Marine Sponge Collagen: Isolation, Characterization And Effects On The Skin Parameters Surface-pH, Moisture And Sebum, Eur. J. of Pharmaceutics and Biopharmaceutics, 53:107-113, 2002.	
	TOOLAN, et al., "Effects of Growth Factor-Enhanced Culture on a Chondrocyte-collagen Implant for Cartilage Repair," Journal of Biomedical Materials Research, 1996, Vol. 31, pp. 273-280.	
	UPHOLT, et al., The Active Genes Of Cartilage, Cartilage Molecular Aspects, Chapter 1, 1-57, 1991	
	VAN SUSANTE, JOB, L. C.; BUMA, PIETER; VAN OSCH, GERJO, J.V.M.; VERSLEYEN, DINY; VAN DER KRAAN, PETER, M.; VAN DER BERG, WIM, B.; and HOMMINGA, GERORGE, N., "Culture of chondrocytes in alginate and collagen carrier gels," Acta Orthop Scand, Vol. 66, No. 6 (1995), pp. 549-556.	
	WAKITANI, SHIGEYUKI; KIMURA, TOMOATSU; HIROOKA, ATSUSHI; OCHI, TAKAHIRO; YONEDA, MINORU; YASUI, NATSUO; OWAKI, HAJIME; and KEIRO, ONO, "Repair of Rabbit Articular Surfaces with Allograft Chondrocytes Embedded in Collagen Gel", 1989, Journal of Bone and Joint Surgery, Vol. 71-B, pp. 74-80.	
	WHEATER, BURKITT, and DANIELS, "Chapter 4: Connective Tissue", 2nd Edition (Church livingstone, London 1987), pp. 52-63.	
	WHEATER, PAUL; BURKITT, GEORGE; STEVENS, ALAN; and LOWE, JAMES, "Chapter 21: Skeletal system", Basic Histopathology - A Colour Atlas and Text, Churchill Livingstone, 1985, pp. 195-200.	
	WOO, SAVIO L-Y.; MOW, VAN C.; and LAI, W. MICHAEL, Handbook of Bioengineering, Biomechanical Properties of Articular Cartilage", McGraw-Hill Book Company, 1987, Chapters 4.	
	YOSHINAO, MASATOSHI, "Immune Responses to Articular Cartilage Reconstruction Using Chondrocytes Allograft Transplant," J. Jpn. Orthop. Assoc., Vol. 64, 1990, pp. 835-846. (Abstract in English)	